## **ABSTRACT**

1 A motion picture film projector including a lamp house 2 section having a lamp bulb and a reflector; a head 3 section located in front of the lamp house section; and 4 an optical member located proximate a junction between the lamp house section and the head section. The optical 6 member has infrared filtering coatings on both a front 7 side and a rear side of the optical member. 8 reflector has a rear aperture with a portion of the lamp 9 bulb extending therethrough. The rear aperture is larger 10 than a center outer diameter of the lamp bulb. 11 bulb and the reflector are sized and shaped such that an 12 operator looking rearward from a front side of the lamp 13 bulb and reflector can see a general ring shaped gap 14 between the reflector and the lamp bulb when the lamp 15 bulb is aligned relative to the reflector.